

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP2005/000448

**A. CLASSIFICATION OF SUBJECT MATTER**  
IntCl.<sup>7</sup> B32B 15/08, H05K1/03, 3/18, 3/38

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IntCl.<sup>7</sup> B32B 15/08, H05K1/03, 3/18, 3/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996  
Published unexamined utility model applications of Japan 1971-2005  
Registered utility model specifications of Japan 1996-2005  
Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 1-133729 A (Nitto Denko corporation) 1989.05.25 Claims, upper right-hand section, lower left-hand section in page3 (family: none)	1-7
X	JP 11-268183 A (Mitsui Chemicals Inc.) 1999.10.05 Claims, paragraph [0028], [0041] (family: none)	1-7
X	JP 2001-277424 A (Mitsubishi Shindo Co. Ltd) 2001.10.09 Claims, paragraph [0027], [0028] & WO 2001/074585 A1 & US 2003/0148078 A1	1-7
X	JP 11-158276 A (UBE Industries, Ltd) 1999.06.15	1-8

Further documents are listed in the continuation of Box C.  See patent family annex.

\* Special categories of cited documents:  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed  
 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search 07.04.2005	Date of mailing of the international search report 26.4.2005
Name and mailing address of the ISA/JP <b>Japan Patent Office</b> 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer Takefumi Sato Telephone No. +81-3-3581-1101 Ext. 3474

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Claims, paragraph [0023] & EP 919593 A1 & US 6129982 A  JP 2002-208768 A(Hitachi Ltd.)2002.07.26 Claims (family: none)	1-8